

Section 1. Registration Information

Source Identification

Facility Name:	Aqua Clear Pool Chemical Inc.
Parent Company #1 Name:	
Parent Company #2 Name:	

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	5-year update (40 CFR 68.190(b)(1))
Description:	
Receipt Date:	23-Jun-2009
Postmark Date:	20-Jun-2009
Next Due Date:	20-Jun-2014
Completeness Check Date:	24-Jun-2009
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0008 5016
Other EPA Systems Facility ID:	

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	
Parent Company #1 DUNS:	
Parent Company #2 DUNS:	

Facility Location Address

Street 1:	3901 S. 28th Street
Street 2:	
City:	Phoenix
State:	ARIZONA
ZIP:	85040
ZIP4:	
County:	MARICOPA

Facility Latitude and Longitude

Latitude (decimal):	33.411364
Longitude (decimal):	-112.021049
Lat/Long Method:	Interpolation - Digital map source (TIGER)
Lat/Long Description:	Center of Facility
Horizontal Accuracy Measure:	100
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	

Owner or Operator

Operator Name:	Daniel Pagnozzi
Operator Phone:	(602) 232-2109

Mailing Address

Operator Street 1:	3901 S. 28th Street
Operator Street 2:	
Operator City:	Phoenix
Operator State:	ARIZONA
Operator ZIP:	85040
Operator ZIP4:	
Operator Foreign State or Province:	
Operator Foreign ZIP:	
Operator Foreign Country:	

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Daniel Pagnozzi
RMP Title of Person or Position:	Owner
RMP E-mail Address:	aquaclearpoolco@msn.com

Emergency Contact

Emergency Contact Name:	Daniel Pagnozzi
Emergency Contact Title:	Owner
Emergency Contact Phone:	(602) 232-2109
Emergency Contact 24-Hour Phone:	(480) 444-9312
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	aquaclearpoolco@msn.com

Other Points of Contact

Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	
Facility or Parent Company WWW Homepage Address:	

Local Emergency Planning Committee

LEPC:	Maricopa County LEPC
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Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	2
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	Yes
CAA Title V:	
Air Operating Permit ID:	

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	30-Jan-2008
Last Safety Inspection Performed By an External Agency:	EPA

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:	Tracer ES&T
Preparer Phone:	(760) 744-9611
Preparer Street 1:	970 Los Vallecitos Blvd. Suite 100
Preparer Street 2:	
Preparer City:	San Marcos
Preparer State:	CALIFORNIA
Preparer ZIP:	92069
Preparer ZIP4:	1474
Preparer Foreign State:	
Preparer Foreign Country:	
Preparer Foreign ZIP:	

Confidential Business Information (CBI)

CBI Claimed:
Substantiation Provided:
Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents:	See Section 6. Accident History below to determine if there were any accidents reported for this RMP.
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Process Chemicals

Process ID:	80182
Description:	Chlorine transfer
Process Chemical ID:	106954
Program Level:	Program Level 3 process
Chemical Name:	Chlorine
CAS Number:	7782-50-5
Quantity (lbs):	6000
CBI Claimed:	
Flammable/Toxic:	Toxic

Process NAICS

Process ID:	80182
Process NAICS ID:	82146
Program Level:	Program Level 3 process
NAICS Code:	56179
NAICS Description:	Other Services to Buildings and Dwellings

Section 2. Toxics: Worst Case

Toxic Worst ID: 52221

Percent Weight:	
Physical State:	Gas liquified by pressure
Model Used:	EPA's RMP Guidance for Waste Water Treatment Plants Reference Tables or Equations
Release Duration (mins):	10
Wind Speed (m/sec):	1.5
Atmospheric Stability Class:	F
Topography:	Urban

Passive Mitigation Considered

- Dikes:
- Enclosures:
- Berms:
- Drains:
- Sumps:
- Other Type:

Section 3. Toxics: Alternative Release

Toxic Alter ID: 61598

Percent Weight:

Physical State:

Model Used:

Wind Speed (m/sec):

Atmospheric Stability Class:

Topography:

Gas liquified by pressure

EPA's RMP Guidance for Waste Water Treatment
Plants Reference Tables or Equations

3.0

D

Urban

Passive Mitigation Considered

Dikes:

Enclosures:

Berms:

Drains:

Sumps:

Other Type:

Active Mitigation Considered

Sprinkler System:

Deluge System:

Water Curtain:

Neutralization:

Excess Flow Valve:

Flares:

Scrubbers:

Emergency Shutdown:

Other Type:

Section 4. Flammables: Worst Case

No records found.

Section 5. Flammables: Alternative Release

No records found.

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

Chlorine is transferred from one ton containers to 20 pound containers for use in disinfecting pools for residential homes.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	69036
Chemical Name:	Chlorine
Flammable/Toxic:	Toxic
CAS Number:	7782-50-5

Prevention Program Level 3 ID:	47332
NAICS Code:	56179

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	03-Jun-2004
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	19-Jun-2009
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The Technique Used

What If:	Yes
Checklist:	Yes
What If/Checklist:	
HAZOP:	
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	

Major Hazards Identified

Toxic Release:	Yes
Fire:	Yes
Explosion:	
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	Yes
Overfilling:	
Contamination:	
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	
Earthquake:	
Floods (Flood Plain):	

Tornado:
Hurricanes:
Other Major Hazard Identified:

Process Controls in Use

Vents:
Relief Valves:
Check Valves:
Scrubbers: Yes
Flares:
Manual Shutoffs: Yes
Automatic Shutoffs:
Interlocks:
Alarms and Procedures: Yes
Keyed Bypass:
Emergency Air Supply:
Emergency Power:
Backup Pump:
Grounding Equipment:
Inhibitor Addition:
Rupture Disks:
Excess Flow Device:
Quench System:
Purge System:
None:
Other Process Control in Use:

Mitigation Systems in Use

Sprinkler System: Yes
Dikes:
Fire Walls:
Blast Walls:
Deluge System:
Water Curtain:
Enclosure:
Neutralization:
None:
Other Mitigation System in Use:

Monitoring/Detection Systems in Use

Process Area Detectors: Yes
Perimeter Monitors:
None:
Other Monitoring/Detection System in Use:

Changes Since Last PHA Update

Reduction in Chemical Inventory:
Increase in Chemical Inventory:
Change Process Parameters:
Installation of Process Controls:
Installation of Process Detection Systems:

Installation of Perimeter Monitoring Systems:

Installation of Mitigation Systems:

None Recommended:

None: Yes

Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 12-Jun-2009

Training

Training Revision Date (The date of the most recent review or revision of training programs): 10-Mar-2009

The Type of Training Provided

Classroom: Yes

On the Job: Yes

Other Training:

The Type of Competency Testing Used

Written Tests:

Oral Tests:

Demonstration: Yes

Observation: Yes

Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 12-Jun-2009

Equipment Inspection Date (The date of the most recent equipment inspection or test): 05-Jun-2009

Equipment Tested (Equipment most recently inspected or tested): valves

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures):

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 13-Jun-2009

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review):

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 30-Jan-2008

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit):

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)):

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation):

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 10-Mar-2009

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 10-Mar-2009

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 10-Mar-2009

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance):

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?):

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?):

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?):

Healthcare (Does facility's ER plan include information on emergency health care?):

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan):

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees):

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): Fire Department HazMat

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (480) 350-8843

Subject to

OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120:

Clean Water Regulations at 40 CFR 112:

RCRA Regulations at CFR 264, 265, and 279.52:

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:

State EPCRA Rules or Laws: Yes

Other (Specify):

Executive Summary

ACCIDENTAL RELEASE PREVENTION AND EMERGENCY RESPONSE POLICIES

Aqua Clear provides chlorination for recreational swimming pools in the Phoenix, Arizona area. Aqua Clear has ensured a safe operation dating back to 1997.

Aqua Clear's owner is personally committed to offer superior service and to maintain a safety and environmental program to promote a safe environment for all its employees and the surrounding communities. The owner administers the company's safety and environmental policies. He is also responsible for various inspections to ensure compliance, and oversees the entire safety and environmental programs. These programs include, hazard communications, employee safety manuals, manufacturers documentation, Emergency Response, as well as the Risk Management Plan.

FACILITY AND REGULATED SUBSTANCE HANDLED

Startup of the chlorine system occurred in 1997. The process is located at 3901 S. 28th Street, Phoenix, Arizona 85040. The chlorine system for Aqua Clear consists of chlorine one-ton containers which are the storage vessels. Chlorine gas is drawn from the ton container to 20 pound cylinders. Below provides a list of the chlorine equipment.

Chlorine Tanks (one ton containers)

(2 - Operational Amount)

(3 - Maximum that can be stored) Located in the building.

Chlorine Tank (20 lb. container)

(35 - Operational Amount): Located in the building.

Filling Manifold: Located at the north end of the facility outside.

Scrubber System: Located at the north end of the facility outside.

The maximum quantity of chlorine that can be stored on site is 6,000 pounds.

ACCIDENTAL RELEASE PREVENTION PROGRAM AND CHEMICAL-SPECIFIC PREVENTION STEPS

Aqua Clear has a Process Safety Management program in place to manage the handling of chlorine. In addition, common industry standards, policies, and procedures are utilized to ensure safe practices are being performed. This includes common practices outlined by the Chlorine Institute. In addition to the Management Programs, there is a scrubber system that is used in conjunction while transferring chlorine.

FIVE YEAR ACCIDENT HISTORY

Based on the Hazard Assessment Update (June 2009), the five year accident history investigation (June 2004 - June 2009) revealed that there has been no reportable release of chlorine at the facility.

EMERGENCY RESPONSE PROGRAM

If a release of chlorine were to occur, Aqua Clear's response plan is to call 911 in order to reach the Fire Department's HAZMAT team. Aqua Clear has a B-kit available at the facility in order to mitigate a chlorine release. Employees will evacuate the facility to a point that is upwind of the hazard. Evacuation drills are performed annually. The emergency response plan provides the response organization and notification procedures, and mitigation procedures which will be implemented to respond effectively to emergency situations that may arise at the facility. This plan was reviewed and updated to ensure compliance with the PSM and RMP regulations, and to ensure that the plan is kept current.

PLANNED CHANGES TO IMPROVE SAFETY

Aqua Clear has conducted a PSM/RMP Compliance Audit (January 2008) and revalidated the Process Hazard Analysis (June 2009). The Process Hazard Analysis Revalidation revealed that no necessary modifications are needed to ensure a safe operation.

The Process Safety Management team will continue to provide a safe environment by ensuring employee involvement in safety development and training.